

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number
WO 2005/075665 A2

(51) International Patent Classification⁷: **C12Q 1/37**,
G01N 33/573, 33/68, A61K 38/00, 39/00

(21) International Application Number:
PCT/EP2005/000607

(22) International Filing Date: 22 January 2005 (22.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
04002289.9 3 February 2004 (03.02.2004) EP

(71) Applicant (for all designated States except US): **BAYER
HEALTHCARE AG** [DE/DE]; 51368 Leverkusen (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GOLZ, Stefan**
[DE/DE]; Bückmannsmühle 46, 45326 Essen (DE).
BRÜGGEMEIER, Ulf [DE/DE]; Leysiefen 20, 42799
Leichlingen (DE). **GEERTS, Andreas** [DE/DE]; Schuck-
ertstr. 29, 42113 Wuppertal (DE). **SUMMER, Holger**
[DE/DE]; Katernberger Schulweg 3, 42113 Wuppertal
(DE).

(74) Common Representative: **BAYER HEALTHCARE
AG**; Law and Patents, Patents and Licensing, 51368
Leverkusen (DE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: **DIAGNOSTICS AND THERAPEUTICS FOR DISEASES ASSOCIATED WITH PLASMA KALLIKREIN (KLKB1)**

(57) Abstract: The invention provides a human KLKB1 which is associated with the cardiovascular disorders, endocrine system and hormone disorders, metabolic diseases, gastrointestinal and liver diseases, inflammatory diseases, cancer disorders, muscle-skeleton disorders, neurological disorders and urological disorders. The invention also provides assays for the identification of compounds useful in the treatment or prevention of cardiovascular disorders, endocrine system and hormone disorders, metabolic diseases, gastrointestinal and liver diseases, inflammatory diseases, cancer disorders, muscle-skeleton disorders, neurological disorders and urological disorders. The invention also features compounds which bind to and/or activate or inhibit the activity of KLKB1 as well as pharmaceutical compositions comprising such compounds.



WO 2005/075665 A2